PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY PCT 100011 22/F, Great Engle Centre, 23 Harbour Road. WRITTEN OPINION OF THE INTERNATIONAL Wanchai, HONG KONG, P.R.China SEARCHING AUTHORITY CHINA PATENT AGENT (H.K.) LTD (PCT Rule 43 bis.1) Date of mailing (day/month/year) 1001 W 3 . 3 3 . Z () () () FOR FURTHER ACTION Applicant's or agent's file reference FPEL06150029 see paragraph 2 below International filing date (day/month/year) Priority date (day/month/year) International application No. PCT/CN2006/000939 10 May 2006 (10.05.2006) International Patent Classification (IPC) or both national classification and IPC G06F9/50(2007.01)i Applicant INTEL CORPORATION ET-AL 1. This opinion contains indications relating to the following items: Basis of the opinion Box No. I ☐ Box No.II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. I(a)(i)with regard to novelty, inventive step or industrial applicability; X Box No. V citations and explanations supporting such statement Box No.VI Certain documents cited Box No. VII Certain defects in the international application Box No.VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written eninions of this international Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with smendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailton address of the ISA/CN Date of completion of this opinion
The State Institctural Property Office, the
E.R.Chine & Klutcheng R.J., intern Bridge,
Haidson District, Bejing, China 100/088
Feetimile No. 86-10-62019451
Telephone No. 36-01-62086084

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CN2006/000939

Во	x No	. 1	Basis of the opinion				
1.	Wit	h reg	ard to the language, this opinion has been established on the basis of:				
		аt	international application in the language in which it was filed translation of the international application into, which is the language of a translation nished for the purposes of international search (Rules 12.3(a) and 23.1(b)).				
2.			ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed n, this opinion has been established on the basis of :				
	ä.		of material a sequence listing table(s) related to the sequence listing				
	b.	form	nat of material on paper in electronic form				
	C.		of filing/furnishing contained in the international application as filed filled together with the international application in electronic form furnished subsequently to this Authority for the purposes of search				
3.	☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed of furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4.	Ado	lition	al comments:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CN2006/000939

Box No. V Reasoned statement under Rule 436/s.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

l. Statement:				
Novelty (N)	Claims	1-22		YES
	Claims	NONE	:	NO
Inventive step (IS)	Claims	1-22		YES
	Claims	NONE		_ NO
Industrial applicability (IA)	Claims	1-22		YES
	Claims	NONE		NO

2. Citations and explanations

The invention relates to thread scheduling on multiprocessor systems. The following documents cited in this report are considered to be the related prior art.

D1: (CN1517872A), which discloses a method for allocating computer resource in multithreaded computer.
D2: (US6269391B1), which discloses a multiprocessor scheduling kernel.

D3:(COMPUTER ENGINEERING & SCIENCE, Vol 22, No.5, 2000, Luo Yu; Luo Qing" On the Design of Multiprocessor Scheduling"), which discloses several typical parallel computer architectures and processor allocation and scheduling polices.

About the novelty:

D1, D2, D3 don't disclose the features of obtaining information on data sharing behavior among multiple threads and grouping the multiple threads into one group based on the said information on data sharing behavior among multiple threads in claims 1.8, and the features of obtaining information on data sharing behavior among multiple threads and scheduling the said multiple threads to target processors in claims 14,19. As D1, D2 and D3 don't describe the same technical solutions with those in the independent claims 1,8,14,19, the solutions of the independent claims 1,8,14,19 meet the requirements of Article 33 (2) PCT and have the novelty. Therefore the dependent claims 2-7,9-13,15-18,20-22also meet the criteria set out in Article 33 (2) PCT and have the novelty.

About the inventive step:

Those skilled in the art can not obtain the technical solutions defined by claims 1,8,14,19 obviously from the combinations of the above documents, therefore the subject-matters of claims 1,8,14,19 involve inventive steps and meet the criteria of Article 33(3) PCT. And the subject-matters of dependent claims 2-7,9-13,15-18,20-22 also involve inventive steps and meet the criteria of Article 33(3) PCT.

About the industrial applicability:

Claims 1-22 have industrial applicability under Article 33(4) PCT, because the technology schemes claimed can be made or used in the industry.

PCT 国际检索与初步审查程序复核单

申请号 PCT/CN200 し	1000 939	部门 3部
复核员的意见: 同意。		
复核员签章	45.005	复核日期
	14. 36. 1885 3.18	07. 2.9
主审员的意见-	与采取的行动:	
Advisor deliberare results	25	
	问题	
主审员签章		日期
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